

### 7. Syntaxonomy of riparian woodlands in north-western Portugal (Galician-Portuguese and Juresian Sectors)

Honrado (*Flora e Vegetação do Parque Nacional da Peneda-Gerês*, unpub. Ph.D. thesis, 2003) revised the diversity of riparian woodlands (alliance *Osmundo-Alnion*, class *Salici-Populetea*) in North-western Portugal, recognising the following three associations in the territory:

#### 1. *Narcisso cyclaminei-Alnetum glutinosae*

Miniensean laurel-rich riparian forests predominated by *Alnus glutinosa* and *Salix atrocinerea*, typical of mesomediterranean and thermosubmediterranean, highly oceanic territories. The narrow endemic *Narcissus cyclamineus* is a character species of this syntaxon (Honrado *et al.*, *Silva Lusitana* **10**(2): 247-259, 2002).

#### 2. *Galio broteriani-Alnetum glutinosae*

Following floristic and bioclimatic criteria, Honrado (*op. cit.*) included juresian suprasubmediterranean riparian forests predominated by alder in the meso-supramediterranean association *Galio broteriani-Alnetum glutinosae*, specifically in subassociation *paradiseetosum lusitanicae* (Navarro *et al.*, *Studia Botanica* **5**: 39-52, 1986), differentiated by the presence of *Betula celtiberica*, *Deschampsia gallaecica*, *Paradisea lusitanica*, *Luzula sylvatica* subsp. *henriquesii* and *Anemone nemorosa*.

#### 3. *Carici reuterianae-Betuletum celtibericae*

Honrado (*op. cit.*) and Honrado *et al.* (*Silva Lusitana* **11**(2): 237-241, 2003) described this association of riparian birch woodlands based on relevés from meso-suprasubmediterranean areas of the Juresian and Galician-Portuguese Sectors. As no syntype was indicated by the authors, relevé n. 1 from Table 1 (*Silva Lusitana* **11**(2): 239-241, 2003) is selected here as lectotype of the association and transcribed as follows:

MONTALEGRE: Paredes, Corgo de Sendão, 29TNG9028, 910 m a.s.l. Characteristic and differential taxa: 2*Athyrium filix-femina*, 5*Betula celtiberica*, 3*Carex reuteriana*, 1*Salix atrocinerea*, 1*Omphalodes nitida*, 1*Blechnum spicant*, 1*Lathyrus linifolius*, 1*Luzula henriquesii*, 2*Oenanthe crocata*, 3*Calamagrostis arundinacea*, +*Paradisea lusitanica*. Companion taxa: 1*Euphorbia dulcis*, +*Arrhenatherum bulbosum*, +*Crepis lampsanoides*, 1*Dryopteris affinis*, +*Dactylis glomerata*, 1*Holcus mollis*, 1*Agrostis capillaris*, 1*Caltha palustris*, 1*Hieracium dumosum*.

### Syntaxonomy

SALICI PURPUREAE - POPULETEA NIGRAE (Rivas-Martínez & Cantó ex Rivas-Martínez, Báscones, T.E. Díaz, Fernández-González & Loidi 1991) Rivas-Martínez & Cantó in Rivas-Martínez, T.E. Díaz, F. Fernández-González, J. Izco, J. Loidi, M. Lousã & A. Penas 2002

+ *Populetalia albae* Br.-Bl. ex Tchou 1948

\* *Osmundo-Alnion* (Br.-Bl., P. Silva & Rozeira 1956) Dierschke & Rivas-Martínez in Rivas-Martínez 1975

*Carici reuterianae* - *Betuletum celtibericae* J. Honrado, P. Alves, C. Aguiar, S. Ortiz & F.B. Caldas 2003

*Galio broteriani-Alnetum glutinosae* Rivas-Martínez, Fuente & Sánchez-Mata 1986

*paradiseetosum lusitanicae* Navarro, González, Gallego, Elena, Sánchez & López 1986

*Narcisso cyclaminei* - *Alnetum glutinosae* J. Honrado, P. Alves, R. Pereira & F.B. Caldas in J. Honrado, P. Alves, H.N. Alves & F.B. Caldas 2002

### Nomenclature

Scientific names of taxa are according to *Flora Iberica* (Castroviejo *et al.*, 1986-2003) and *Nova Flora de Portugal* (Franco, 1971, 1984; Franco & Afonso, 1994, 1998, 2003), except *Deschampsia gallaecica* (Cervi & Romo) García Suárez, Fernández-Carvajal & Fernández Prieto.